

Please add the following newly drafted Claims 39-51.

Sub 1  
B2 2 C7  
39. A storage method used by instruction storing means that stores a virtual machine

instruction sequence to be executed by a virtual machine under control of a real machine,

wherein the storage method results in:

the instruction storing means being a plurality of instruction blocks that constitute the

virtual machine instruction sequence, the instruction blocks corresponding to basic blocks;

the instruction blocks each including:

an identifier area for storing an identifier that specifies a start position of the instruction  
block in the instruction storing means;

a non-branch instruction area for storing non-branch instructions belonging to the  
corresponding basic block; and

a branch instruction area for storing at least one branch instructions belonging to the  
corresponding basic block.

40. A storage method of Claim 39,

wherein the identifier of the instruction block is an address related information in  
the virtual machine instruction sequence.

41. A storage method of Claim 40,

wherein the address related information is one of absolute address, relative  
address, and offset address.

1           42.    A storage method Claim 40,  
2                    wherein whether each virtual machine instruction is positioned at a start position  
3 of the basic block is indicated by an address in the virtual machine instruction sequence to which  
4 the virtual machine instruction is allocated;  
5                    a virtual machine instruction at the start position of the basic block being allocated  
6 to a specific address in the virtual machine instruction sequence, and  
7                    a virtual machine instruction at other than the start position of the basic block  
8 being allocated to an address other than the specific address.

1           43.    A storage method of Claim 40,  
2                    wherein virtual machine instructions of the virtual machine instruction sequence  
3 each comprises:  
4                    an identifying unit for storing identification information which indicates if the  
5 virtual machine instruction is positioned at a start position of the basic block; and  
6                    an operation specifying unit for specifying an operation to be executed by the  
7 virtual machine.

1           44.    A storage method of Claim 40,  
2                    wherein the instruction storing means comprises:  
3                    the basic blocks; and  
4                    identification tags, each designates an address related information of the virtual  
5 machine instruction at a start position of the basic block; attachment of the tag indicating if the  
6 virtual machine instruction corresponding to the identification tag is positioned at the start  
7 position of the basic block.

1 45. A computer-readable recording medium for recording a program that enables a  
2 computer to carry out the storage method according to Claim 30.

1 46. A computer-readable recording medium for recording a program that enables a  
2 computer to carry out the storage method according to Claim 39.

1 47. A computer-readable recording medium for recording a program that enables a  
2 computer to carry out the storage method according to Claim 40.

1 48. A computer-readable recording medium for recording a program that enables a  
2 computer to carry out the storage method according to Claim 41.

1 49. A computer-readable recording medium for recording a program that enables a  
2 computer to carry out the storage method according to Claim 42.

1 50. A computer-readable recording medium for recording a program that enables a  
2 computer to carry out the storage method according to Claim 43.

1 51. A computer-readable recording medium for recording a program that enables a  
2 computer to carry out the storage method according to Claim 44.